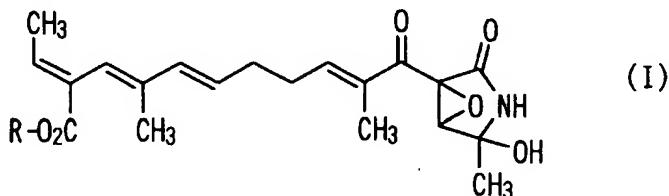


AMENDMENTS TO THE CLAIMS

1. (currently amended) A compound represented by the following general formula (I):



(wherein wherein R represents a linear, branched, or cyclic alkyl or aryl ~~group~~group.)

2. (original) The compound according to claim 1, wherein R in the general formula (I) is a linear, branched, or cyclic alkyl group.

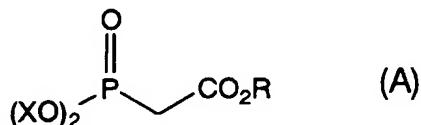
3. (original) The compound according to claim 1, wherein R in the general formula (I) is a linear, branched, or cyclic alkyl group having 1 to 6 carbon atoms.

4. (original) The compound according to claim 1, wherein R in the general formula (I) is a tert-butyl group.

5. (currently amended) A process for producing the compound according to any one of claims 1 to 4, comprising:

- (1) reacting tetrahydropyran-2-ol with (ethoxycarbonylethylidene) triphenylphospholane;
- (2) protecting a free hydroxyl group of the reaction product from (1);
- (3) transforming a hydroxymethyl group of the reaction product from (2) into a formyl group;

(4) reacting the reaction product from (3) with phosphonoacetic acid ester represented by the following general formula (A):



(wherein wherein R and X each represent a linear, branched, or cyclic alkyl or aryl group)

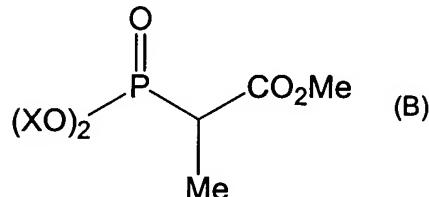
(5) reacting the reaction product from (4) with a base and acetaldehyde;

(6) formally dehydrating the reaction product from (5);

(7) deblocking a protecting group of the reaction product from (6);

(8) oxidizing the reaction product from (7);

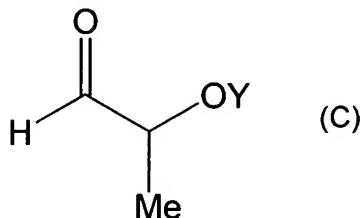
(9) reacting the reaction product from (8) with phosphonopropionic acid methyl ester represented by the following general formula (B):



(wherein X is synonymous with the foregoing) wherein X is defined as in (4) above;

(10) reacting the reaction product from (9) with acetonitrile in the presence of a base;

(11) reacting the reaction product from (10) with propanal represented by the following general formula (C):



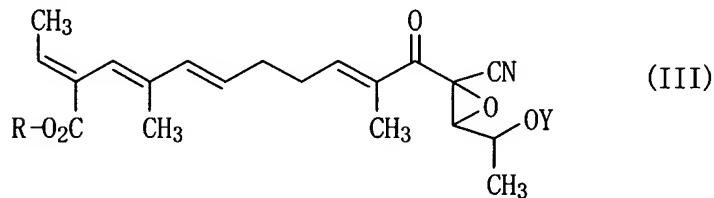
(wherein wherein Y represents a protecting group of a hydroxyl group)

(12) epoxidizing the reaction product from (11);

(13) deblocking a protecting group of the reaction product from (12);

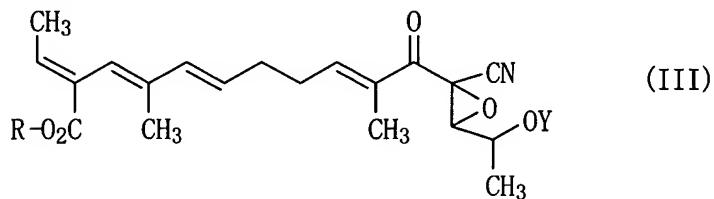
(14) dehydrating a cyano group from the reaction product from (13); and
 (15) lactamizing the reaction product from (14).

6. (currently amended) A compound represented by the following general formula (III):



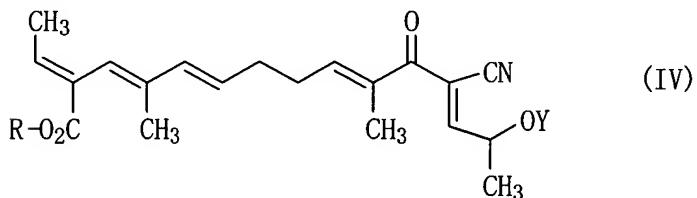
~~(wherein R and Y are synonymous with the foregoing)~~ wherein R represents a linear, branched, or cyclic alkyl or aryl group and Y represents a protecting group of a hydroxyl group.

7. (currently amended) A process for producing a compound represented by the following general formula (III):



~~(wherein R and Y are synonymous with the foregoing)~~ wherein R represents a linear, branched, or cyclic alkyl or aryl group and Y represents a protecting group of a hydroxyl group, comprising

reacting a compound represented by the following general formula (IV):



~~(wherein R and Y are synonymous with the foregoing)~~ wherein R and Y are defined as above for (III),

with peroxide capable of stereoselectively epoxidizing the compound with a peroxide that stereoselectively epoxidizes the compound (IV).

8. (currently amended) A pharmaceutical agent composition containing the compound according to any one of claims 1 to 4 as an active ingredient and a pharmaceutically acceptable carrier.

9. (currently amended) The pharmaceutical agent composition according to claim 8, which is an antitumor agent.